

SEQUENCE LISTING

<110> IKEDA, Kazutaka et al.

<120> METHOD OF EVALUATING DRUG SENSITIVITY BY ANALYZING THE
MU-OPIOID RECEPTOR GENE

<130> 0649-1380PUS1

<140> US 10/594,597

<141> 2006-09-28

<150> PCT/JP05/06701

<151> 2005-03-30

<150> JP2004-106136

<151> 2004-03-31

<160> 99

<170> PatentIn version 3.2

<210> 1

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 1

gttcaactgc taatacctta gcaggaatcg aaacagtgc cccatggcat rctaagagtc 60

actgtactct tcacagacgt gcactcacag aagaaaaaca c 101

<210> 2

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 2

actaaagtag aatgcttgct ccaaagaaaa gcgcatgttg cctgtttgag ytgtgaacta 60

aattaaccac tttttccgtg gatcactatt tttatttaaa g 101

<210> 3

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 3

atgttgccctg tttgagctgt gaactaaatt aaccactttt tccgtggatc rctattttta 60

tttaaagaat gactgaggcc gggcgcggtg gctcacgcct g 101

<210> 4

<211> 101

<212> DNA
 <213> Homo Sapiens

<400> 4
 ctgaggccgg gcgcggtggc tcacgcctgt aatcccagca ctttgggagg ytgaggcagg 60
 cagatgacga ggtcaggaga tcgagaccat cctggctaac a 101

<210> 5
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 5
 actcgggagg tggagcttgc agcgagctga gatcgcgcca ctgcactcca rcctgggcga 60
 cagagtgaga ctctgtttta aaataaataa ataaataaaa t 101

<210> 6
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 6
 ataaataaaa taaaatataa tgataaagaa atgtttttat agagctctca rttttaattt 60
 ctgaagtgat agactgtgat aaagataacc taaataagaa a 101

<210> 7
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 7
 taattcttct tgctaatttc taggccacat acaacaggat ataaaaagcc maacaacaaa 60
 ggataaattc tttcatatgt gtgtaatcct ataaaccctc t 101

<210> 8
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 8
 taaaatatat gctaatcatt ttttcaactg aattcaaata ttatgcacat kaatattcat 60
 atatgtttta tatagaaaga aacacagaga gtgagggagg g 101

<210> 9
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 9
 aaaatatatg ctaatcattt tttcaactga attcaaata tatgcacatt matattcata 60
 tatgtttaat atagaaagaa acacagagag tgaggaggagg a 101

<210> 10
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 10
 ctaatcattt tttcaactga attcaaata tatgcacatt aatattcata yatgtttaat 60
 atagaaagaa acacagagag tgaggaggagg agtccactat g 101

<210> 11
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 11
 aaaaatctat agtgttgtac tgagctccct ccaaagcaac tataaattta yaggagatga 60
 aacatatgat tcaccaggca taagaagaaa gtttccgtaa t 101

<210> 12
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 12
 tccacatgaa ctaagcacia aggaactgaa tgcaggcaga cagatttcag ytcaatataa 60
 gagaattggt acattagttc atggaagaat atgttttaag g 101

<210> 13
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 13
 tgtttctcat ttctttttca gaaaataaag gatcgctgtt gttccaaca kgtttgtagg 60
 gaagaaaatt ggagaaacat tattaccttt tcttagatgt t 101

<210> 14
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 14

tagggtttca tcaagccaat gtattccctg ccagatttta aggagaaaaa kgcgctggaa 60
aattgagtga tgtagcccc ctttcttatt tttcactgct a 101

<210> 15
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 15
ccccagcacc cagccccggt tcctgggtca acttgtccca cttagatggc racctgtccg 60
acccatgcgg tccgaaccgc accgacctgg gcgggagaga c 101

<210> 16
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 16
aatgaaaagg cagaaaaatt agccccaaaa gagatgaaac tcttccgtcc rtcaccattg 60
actctattgt gaacttatga aaaaggtagt tgagcaatat g 101

<210> 17
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 17
gaacttatga aaaaggtagt tgagcaatat gaaggccatg atgtggaatt raacacacac 60
acacacacac acacacacac acacacatgc tggattctaa a 101

<210> 18
<211> 102
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (51)..(52)
<223> "ac" at positions 51-52 repeats indefinitely

<400> 18
acttatgaaa aaggtagttg agcaatatga aggccatgat gtggaattaa acatgctgga 60
ttctaaaatg tgtccttcct cctctcactc tcttgatcag tt 102

<210> 19

<211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 19
 acagaggtaa tttatttagt ctggcttcac ttaacacaaa taggtcaaaa rcaatcacat 60
 tttgtaagta gtaatagttg gagaaatgtg tgaagaatag g 101

<210> 20
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 20
 ggtcaaaaga taaataagaa ttatattata accataagaa aggaagaaca kctataaaca 60
 aaagtcatat atgcaacata aaagaatagg tgagctgcc a 101

<210> 21
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 21
 ttctggaagt tccataaaaa tcaactctaat ggggtcaaaca tcgatgggtc kcagaagaac 60
 acaatttttt tcaaaaacga atagcattgt aaattcattt g 101

<210> 22
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 22
 tacaacaaaa tacaggcaag gtgagtgatg ttaccagcct gagggaagga rgggtcacag 60
 cctgatatgt tggatgatgc ataagcaaag cagtatttat g 101

<210> 23
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 23
 tttatatcaa tatagacctc atggaggatc tagctcatgt tgagaggttc rtttttggtc 60
 cctgaacgaa agcttaatgt gatcgaagtg gactgcaaaa t 101

<210> 24
 <211> 101
 <212> DNA

<213> Homo Sapiens
 <400> 24
 ttccacaatt tctttatagc cttaagttag ctctggtcaa ggctaaaaat saatgagcaa 60
 aatggcagta ttaacacctt atgacataat taaatgttgc t 101
 <210> 25
 <211> 101
 <212> DNA
 <213> Homo Sapiens
 <400> 25
 ctctaattac tattattaaa gcacttttctt gacattttta tcaaaatagc rrgtcaagaa 60
 gttaggagat gctctgtatt tggtttaact gtgaactata t 101
 <210> 26
 <211> 101
 <212> DNA
 <213> Homo Sapiens
 <400> 26
 acatcactct caaaagtga tctcagtttt ttttacaaga catctgtgga ragttaattt 60
 gggaaagtaa ttgtttcaat tcaatgggaa aaaaaactca a 101
 <210> 27
 <211> 130
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (51)..(80)
 <223> n represents 11 to 15 repeats of "gt"
 <400> 27
 atcaaaatgg ctattctttc agttctacag tttaaaaaga aaatggttcc nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn gcgtgtgata taggcatgtc tctttttgca tgtatggaat 120
 tagagtaa 130
 <210> 28
 <211> 101
 <212> DNA
 <213> Homo Sapiens
 <400> 28
 aaagaaaatg gttccgtgtg tgtgtgtgtg tgtgtgtgcg tgtgatatag rcatgtctct 60

ttttgcatgt atggaattag agtaaatgta ggtttaaaat t 101

<210> 29
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 29
 tgatatatat cataacatat tatatattat attatgatat atatcataac rtgtattatc 60
 atattatgat atatatcata acatatatat tatcatatta c 101

<210> 30
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 30
 acatgtatta tcatattatg atatatatca taacatatat attatcatat yacgatatat 60
 atcataacat attatatatt atcatattat gatatatatc a 101

<210> 31
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(594)
 <223> n at positions 51 to 594 represents 2 to 17 repeats of
 "attatcatattatgacatatatcataatat"

<400> 31
 tatgacatat cataatatat attatcatat tatgacatat cgtaatatat nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnatcaaa 600

aagtcacaga gctcatgcaa gccagtcac cccattgcc agtg 644

<210> 32
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 32
aatatatatt atcatattat gacatatatc ataatatata ttatcatatt rtgacatata 60
tcataatata tatcaaaaag tcacagagct catgcaagcc c 101

<210> 33
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 33
taaaatgtac tctttatttc tctactggtt ctccatactg caggctcccc rcatattatt 60
ttcttttttt aactcagctc agaatcctta tgccttttga a 101

<210> 34
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 34
atctaggtag acagccaagt cagatggccc atgcctagaa gctctccatt ytgaactttt 60
gtcagcattg attaaaagaa tcaaatacct tgtagttatc t 101

<210> 35
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 35
cagccaagtc agatggccca tgcctagaag ctctccattt tgaacttttg ycagcattga 60
ttaaagaat caaatacctt gtagttatct atgatgatac a 101

<210> 36
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 36
ttatgtggac tcaaccacg tatccagtag atgggaaaaa acaaaagcca raataagttt 60
tttagtggtt ccttctgatg aagtttcatg tttgcttgta a 101

<210> 37
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 37
 aacaaaagcc aaaataagtt ttttagtggt tccttctgat gaagtttcat rtttgcttgt 60
 aataatctcc atttctcaaa tattatgttc cataatagac a 101

<210> 38
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 38
 atgcttttca tgggctagga tggtttctcc caagagatga catagtattg yttttgctca 60
 tcaggctggt tctcagcaat cattgtttct gcttaatacc a 101

<210> 39
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 39
 gctcctagta cgaattatct ggcatgttga gagcaacttt gtcttcaagt rggacctgat 60
 ctatcttttt ccacaaatgt catgtgtgtg aacaagtttc t 101

<210> 40
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 40
 attctaaagt aaataataaa taaggtcatt gtcaacgttt ttcattcaaa rccatttttt 60
 aacgtaaatt tgctagaacc accttccaat tccaaggcaa g 101

<210> 41
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 41
 taataaataa ggtcattgtc aacgtttttc attcaaaacc attttttaac rtaaatttgc 60
 tagaaccacc ttccaattcc aaggcaagga gagacattac a 101

<210> 42
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 42
 ctcaactgga tgggctaagg tttctgataa aatctgaaga taaagaaaat sgaatattct 60
 gcttttttct tccttctaatt ttcacccttg cctaaggatg a 101

<210> 43
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 43
 tttttcttcc ttctaatttc acccttgccct aaggatgaga tttcttccca sgttggtatc 60
 ccagaaatgc agactgtagc tatggggcgg aagctttgtt t 101

<210> 44
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 44
 ttgcctaagg atgagatttc ttcccaggtt ggtatcccag aaatgcagac ygtagctatg 60
 gggcggaagc tttgtttctt tacctgatca cttgctgtgg a 101

<210> 45
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 45
 atttcttccc aggttggtat ccagaaatg cagactgtag ctatggggcg raagctttgt 60
 ttctttacct gatcacttgc tgtggaaatt ctgcttatt g 101

<210> 46
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 46
 tccctctttc cttgccaatc attagaaagg aaagaagagg aaagagactc kctggagcac 60
 tggtagtct ctaggaccct gctatcctat cccaacaggg c 101

<210> 47
 <211> 101

<212> DNA
 <213> Homo Sapiens

 <400> 47
 actggtgagt ctctaggacc ctgctatcct atcccaacag ggctgtcaga mggagaactc 60
 ctaatgtggc catttgaaac acttctcaac attgaaatag a 101

 <210> 48
 <211> 101
 <212> DNA
 <213> Homo Sapiens

 <400> 48
 gaagtttta aataacctct tctaagacac ggctatgagt aggtaagaga kcattcattc 60
 ccttcaataa tatgactgtg ttgataaaac tgataaccat t 101

 <210> 49
 <211> 101
 <212> DNA
 <213> Homo Sapiens

 <400> 49
 aactgataac cattcacttg caaatgttat tattgaataa gtctcactta kctcatttaa 60
 tattacccaa aagatgctaa caaattctgt ttccacatt g 101

 <210> 50
 <211> 101
 <212> DNA
 <213> Homo Sapiens

 <400> 50
 gccaaagcaa cctaagaata ggacatggta gcttaagttt ttcagcttct yaactggcca 60
 cacacacaca agttgtgttt gtacaattct tgaggtcaat c 101

 <210> 51
 <211> 101
 <212> DNA
 <213> Homo Sapiens

 <400> 51
 caaacaatat tactgtgttc taagcgcttc tgttactcga aaggggtctg rtccagaccc 60
 caaaagaggg ttcttgacc tcatgcaaga aagaattcag g 101

 <210> 52
 <211> 101
 <212> DNA
 <213> Homo sapiens

```

<220>
<221> misc_feature
<222> (51)..(51)
<223> "a" repeats indefinitely

<400> 52
ggtttgtttt aagtaagcca ctttcctccc tgcaagttcc cacggagcag aggaggaaac      60
tttttcctgg gagcccacta atcacacagt gaacaaaagg c                             101

<210> 53
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 53
taagaaagca aaggaataaa gaatggctac tccataggca gcgtagcccc magggctgct      60
ggttggctat ttttgtgggtt atttcttgat tatatgctaa a                             101

<210> 54
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 54
gtcgctctgg ttcaaacacc tctgacactt gaattacaaa tataaggacc rttgacactg      60
agattttaag ggaggaaaaa cagattgaca gtggactaaa g                             101

<210> 55
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 55
gcaaggtaag aatcaagtag aaatgataaa gggcaaggaa aaaagatgaa mgcttactca      60
tattaaccat tctaccattg gaattatttg ccaacacacc t                             101

<210> 56
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 56
gacagtgggg aaaattcatc ttcattttgt cacatgcact gtaataggaa kgtttagcaa      60
aaaaaacctt ccagagaaaag gtgggtttcca atattaccta c                             101

```

<210> 57
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 57
 gcaaaaaaaaa ccttcagag aaaggtggtt tccaatatta cctacaactt sccttgcaat 60
 ttgatttttg aaaggaccta aaagttgaaa acaggctatc a 101

<210> 58
 <211> 422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(372)
 <223> n at positions 51-372 represents a sequence having 322bp
 (SEQ ID NO: 99) or deletion

<400> 58
 taaatgtttt atttaagttt gcattgccca ctaaggctag acattttttt nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nngataaatt cacagggtta caaaatacca aacggaaatg agataagtgg 420
 ta 422

<210> 59
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 59
 ggccccggcta gacatttttt gataaattca cagggttaca aaataccaaa yggaaatgag 60
 ataagtggta taaaccacag aagatatagg agaagagaaa a 101

<210> 60
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> n represents "a" or deletion

<400> 60
 tgagataagt ggtataaacc acagaagata taggagaaga gaaaaaaaaa ngaggaaata 60
 aagaagacaa ctcttttcct aagagtctgg gtaaaattga a 101

<210> 61
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 61
 ggaaataaag aagacaactc ttttcctaag agtctgggta aaattgaaca yagccatatt 60
 cactgaacaa catgagtggc cttcattaat ttaagcacag c 101

<210> 62
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 62
 ccatattcac tgaacaacat gaggagctt cattaattta agcacagcaa ractgcttta 60
 attaacaaga ccagagagaa gggagaggag actacatttg t 101

<210> 63
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 63
 gtgacatatt agacttctta ctttcccaa ataaaaaagt gcctgctggg ygcggtggct 60
 cagcctgta attccagcac tttgggaggc cgaggcgggc g 101

<210> 64
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 64
 gcgcggtggc tcacgcctgt aattccagca ctttgggagg ccgaggcggg yggaacacaa 60
 ggtcaggaga tcaagaccat cctggccaat atggtaaaac c 101

<210> 65

<211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 65
 atacaaaatt aggaaggcgt ggtgggtgcac gcctgtaatc ccagctagtc rggaggctga 60
 ggcaggagaa ttgcttgaac tggggaggcg gaagttgcag t 101

<210> 66
 <211> 101
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> "a" repeats indefinitely

<400> 66
 caagatcgca gcattgcact ccagcctggg caacagaatg agattgtctc agtgccacat 60
 gccatgctat gtgcccaaag tttccttcac acaacacagc c 101

<210> 67
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 67
 ttagagccag tcagaattca atctccaata tcttgactag cacaagaaat ycatagggtg 60
 attcttgttc tcttgcatct ctgcaggtgg caaacctgat t 101

<210> 68
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 68
 ttgtgtgttt tcttaataaa ctttaccac ttattaaaag aataaaatga rggtggagtt 60
 aattctgact acgggattcc tttttcactt ttataatgaa c 101

<210> 69
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 69
 tccttctaac taaatcttat cataagcaaa tctatgcacc aaattattta rtacaattcc 60

taataacagc tgaaggacca tttatttgaa gcaatgttca c 101

<210> 70
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 70
ttagtacaat tcctaataac agctgaagga ccatttattt gaagcaatgt wcaccatagc 60
aaaattccag tgaagtctaa gaactgggac agtccgttga g 101

<210> 71
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 71
ttgccccatg aatgtgcaca tgcatattaa aatatgggca cctcttttaa ktcttttttt 60
totcataata agtttgaaac tcacagtagg aaattgagag a 101

<210> 72
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 72
tggttgttct cgaactagct ggtttccag agacagctgg agactgagca mataaagaca 60
tcattgagga aaaaggctac cttgtacctc atggagagct g 101

<210> 73
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 73
catggagagc tgaaggtctg ataaatggga actgccaggt aatagctatg mtatttctga 60
cataaattta aaaactagta ttgtttcttc tagctctgtt t 101

<210> 74
<211> 101
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (51)..(51)

<223> "a" repeats indefinitely

<400> 74
taatgttaaa ttggatctat aaacataagt caatttggct ctattatgtc agagaatagg 60
agttttaact tataatctgtg ttttattaat attttgaagt a 101

<210> 75
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 75
ataagtcaat ttggctctat tatgtcaaaa gagaatagga gttttaactt wtatctgtgt 60
tttattaata ttttgaagta taggaacctc atggtgtagc a 101

<210> 76
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 76
gtatgtgaca ggggctgcat gcaccggtgg tctgggagga acagaacagg rcaggaggtt 60
cttctataca atagagaaca gaacaatgtt cttctataca a 101

<210> 77
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 77
aggcgggccc aggcttggtt tcgggctgg cgctgagctg cctgtatttg rttttacttc 60
cttggtgttt ttactgaata tgaaacaata taaaacaatg t 101

<210> 78
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 78
tggttttact tccttggtgt ttttactgaa tatgaaacaa tataaaacaa kgtgagaggg 60
tctttctctc ctctcaatgt caacatcata tatgattgga g 101

<210> 79
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 79
gctggttttg ttgaagtttc tcttatcagt caggcacttt gcattttaag ygtactttac 60
caccgacacc ctcccccccc agcacacaca cacacacaca c 101

<210> 80
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 80
tcaggcactt tgcattttaa gcgtacttta ccaccgacac cctccccccc magcacacac 60
acacacacac acacacacac acacacaaca tagtgaaatg g 101

<210> 81
<211> 102
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (51)..(52)
<223> "ca" at positions 51-52 repeats indefinitely

<400> 81
ggcactttgc attttaagcg tactttacca ccgacaccct cccccccag caacatagtg 60
aaatggaccc gtgggaatta tatgatagtt gtaatcaaaa ta 102

<210> 82
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 82
gcactttgca ttttaagcgt actttaccac cgacaccctc cccccccagc rcacacacac 60
acacacacac acacacacac acaacatagt gaaatggacc c 101

<210> 83
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (51)..(54)
<223> n at positions 51-54 represents "tctc" or deletion

<400> 83

tctggaagta aacttaaaat gaaaattaga atttgctttc aattatacta nnnntatcta 60
aatcttaatt tgaaatttaa attatattgt ctctacccaa acca 104

<210> 84
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 84
tatactatct ctatctaaat ctttaattga aatttaaatt attttgtctc yacccaaacc 60
atcgatttca tggaaatggt taaattttct tttttttttt t 101

<210> 85
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 85
cttaatttga aatttaaatt attttgtctc tacccaaacc atcgatttca yggaaatggt 60
taaattttct tttttttttt tttttttgat ggagtctcac t 101

<210> 86
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (51)..(54)
<223> n at positions 51-54 represents insertion of "tttc" or none

<400> 86
tattttgtct ctacccaaac catcgatttc atggaaatgt ttaaattttc nnnntttttt 60
tttttttttt ttgatggagt ctactctgt cgcccaggct ggag 104

<210> 87
<211> 101
<212> DNA
<213> Homo Sapiens

<400> 87
aggctggagt gcagtggctc aatcttggct cactgcaacc tctgcctccc rggttcacac 60
cattctcctg cttcagcctc ctgagtagct ggactacag g 101

<210> 88
<211> 101

<212> DNA
 <213> Homo Sapiens

<400> 88
 attctcctgc ttcagcctcc tgagtagctg ggactacagg tgcccgccac macacctggc 60
 taattttttg tattttttagt agagatgggg tttcaccacg t 101

<210> 89
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 89
 acaacacctg gctaattttt tgtattttta gtagagatgg ggtttcacca ygtagccag 60
 gatggtttcg atctcctgac ctcgtgatct gcctgcctcg g 101

<210> 90
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 90
 atccccatca atttaatagg aattaagtta gaaatactag tatatatatt ycctttatat 60
 actaattgta tatccatata aaagcattag taccattata t 101

<210> 91
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 91
 agtatatata ttccctttat atactaattg tatatccata taaaagcatt mgtaccatta 60
 tatgaaagta tatatgccat tccataaaaa tataatctacc a 101

<210> 92
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 92
 ggaattaaag aaaaaatgcc tgttttcact aagtcatcct tcccctggca rtacatttcc 60
 tgaactttta cataacttaaa tagccagtta tgaaaatgta a 101

<210> 93
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 93
 acatttttaaa cagactcctg cccacaaact atttttcctc tccaggaata rgaatggcaa 60
 ctgaattggt ccttctttat tctatagctt taagtcaaac c 101

<210> 94
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 94
 gaatggcaac tgaattgttc cttctttatt ctatagcttt aagtcaaacc yaacataagc 60
 aatcaaccct tccaccatt gtcctcttcc tagctgctta t 101

<210> 95
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 95
 ttgggggtga aataaaagat agaccctgc tgctctgcac gtagattcag yttgtatgcc 60
 agggtgacat ttttaatttac agtagtccag acacctaaac a 101

<210> 96
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 96
 ggggtgaaat aaaagataga ccctgtctgc tctgcacgta gattcagttt statgccagg 60
 gtgacatttt aatttacagt agtccagaca cctaaacagg a 101

<210> 97
 <211> 101
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> "t" repeats indefinitely

<400> 97
 caacattggt ttccttttga tggctctggga gtttttctat aagtttttgg tctcttcatt 60
 agtgtgttag ttccatcatc atgtctgttt actattgaaa a 101

<210> 98
 <211> 101
 <212> DNA
 <213> Homo Sapiens

<400> 98
 ttgaaaatat aggcagctaa atccactgat agtctacttt ttttaaaaat ktgttcttga 60
 tgttttgagc aggaaaatta tttgcaagaa acaaagagtt t 101

<210> 99
 <211> 322
 <212> DNA
 <213> Homo sapiens

<400> 99
 tttttttttt tttttttttt tttttgagac agagtctcgc tctgtcgccc aggctggagt 60
 acagtggcgg gatctcggct cactgcaagc tccgcctccc gggttcacgc cattctcctg 120
 cctcagcctc ccaagtagct gggactacag gcgcccgcga ctacgcccgg ctaatttttt 180
 gtatttttag tagagacggg gtttcaccgt tttagccggg atgatctcga tctcctgacc 240
 tcgtgatccg cccgcctcgg cctcccaaag tgctgggatt acaggcgtga gccaccgcgc 300
 ccggccccgc tagacatttt tt 322